

Lab 5 – Presenting Web Services

INFO-H-511: Web Services

3 April 2014

Lab 5 – Presenting Web Services

Goals of this lab

- Learning JSON for data interchange
- Learning AJAX for Web Applications.

Prospective schedule

- 16:00 – 17:30: Part 1 & 2 – Setup and JSON
- 17:30 – 18:00: Part 3 – Address Book Development

Part 1: JSON

JSON is a lightweight data interchange format.

Literal values

- **String:** `"A \"String\" \n with a new line"`
- **Number:** `12345`
- **Other:** `true`, `false`, `null`

Composite values

- **Object:** `{ "key1": value1, "key2": value2 }`
- **Array:** `[value1, value2]`

The root of a JSON document is either an Object or an Array.

Part 1: JSON

Example

A contact in an address book:

```
{  
  "id": "http://example.org/contacts/42",  
  "firstname": "John",  
  "lastname": "Doe",  
  "email": "johndoe@example.org",  
  "groups": [ "Baseball Club", "Acquaintances" ]  
}
```

Exercise: build JSON documents for our Address book service. Exercise: build JSON documents for our Address book service.

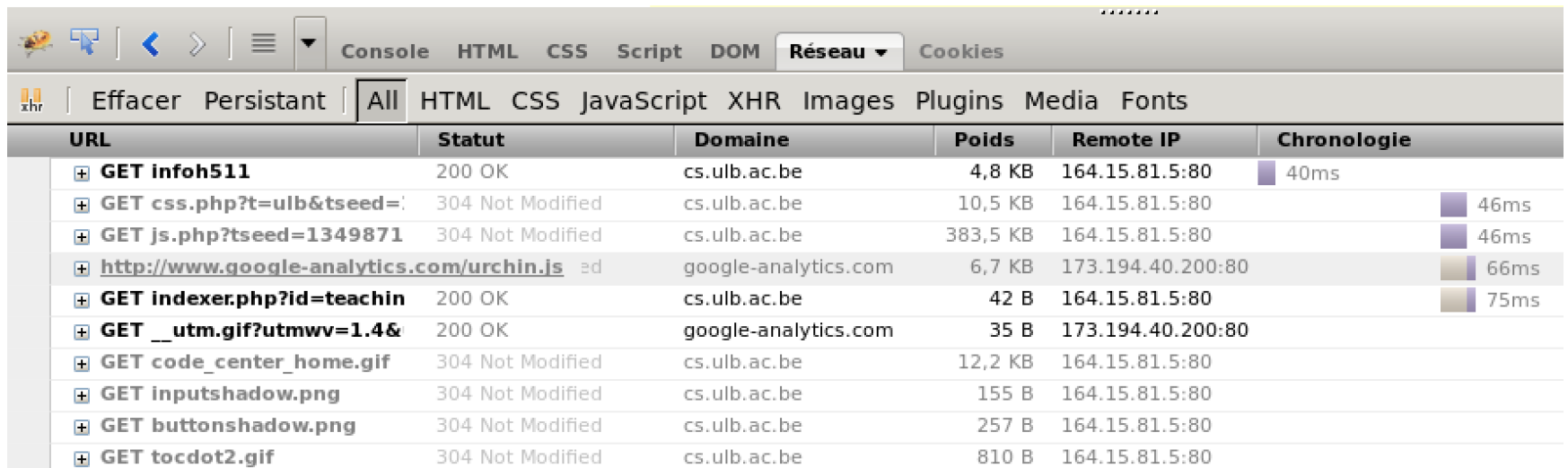
Part 3: Building a web application

Exercise

- Download the package file.
- Copy the contacts subfolder to your HOME.
- Run the RESTContactsManager with eclipse.
- Open a browser on <http://localhost:8080>
- Install Firebug <http://getfirebug.com/> and open it (Ctrl+F12)

Part 3: Building a web application

Using firebug



The screenshot shows the Firebug network tab with a list of requests. The table has columns for URL, Statut, Domaine, Poids, Remote IP, and Chronologie. The requests include GET infoh511, GET css.php, GET js.php, a Google Analytics script, GET indexer.php, GET __utm.gif, and several GET requests for image files (code_center_home.gif, inputshadow.png, buttonshadow.png, tocdot2.gif).

URL	Statut	Domaine	Poids	Remote IP	Chronologie
GET infoh511	200 OK	cs.ulb.ac.be	4,8 KB	164.15.81.5:80	40ms
GET css.php?t=ulb&tseed=	304 Not Modified	cs.ulb.ac.be	10,5 KB	164.15.81.5:80	46ms
GET js.php?tseed=1349871	304 Not Modified	cs.ulb.ac.be	383,5 KB	164.15.81.5:80	46ms
http://www.google-analytics.com/urchin.js		google-analytics.com	6,7 KB	173.194.40.200:80	66ms
GET indexer.php?id=teachin	200 OK	cs.ulb.ac.be	42 B	164.15.81.5:80	75ms
GET __utm.gif?utmwv=1.4&	200 OK	google-analytics.com	35 B	173.194.40.200:80	
GET code_center_home.gif	304 Not Modified	cs.ulb.ac.be	12,2 KB	164.15.81.5:80	
GET inputshadow.png	304 Not Modified	cs.ulb.ac.be	155 B	164.15.81.5:80	
GET buttonshadow.png	304 Not Modified	cs.ulb.ac.be	257 B	164.15.81.5:80	
GET tocdot2.gif	304 Not Modified	cs.ulb.ac.be	810 B	164.15.81.5:80	